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ABSTRACT

Most people think that the artist and the scientist live in two totally different worlds. However, art and science are only two different ways of understanding and knowing the world. To help intermediate students make a connection between art and science, a collection of hands-on activities have been developed. By engaging in these activities that integrate art and science, students learn a variety of ways through which they can understand the world. They learn to bring creativity and insight to the discipline of science, and method and order to the discipline of art. The focus of these activities are the following three themes: structure (10 lessons on describing structure; solids; liquids; surface tension; loam and clay; backyard creatures; fish printing; muscles, tendons, bones, and joints; roots and shoots; and flowers); interactions (13 lessons on color combination; water-interactions; crime-solving chemistry; capillary action; paper chromatography; crystals; inventing a better chalk; and acids and bases); and energy (7 lessons on energy: lines of expression; gravity; wind; reflection; refraction; afterimages and animation; and designing a desert house). Eight appendixes include tips for working with art and science materials, safety precautions, a glossary, and additional resources. (ZWH)

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